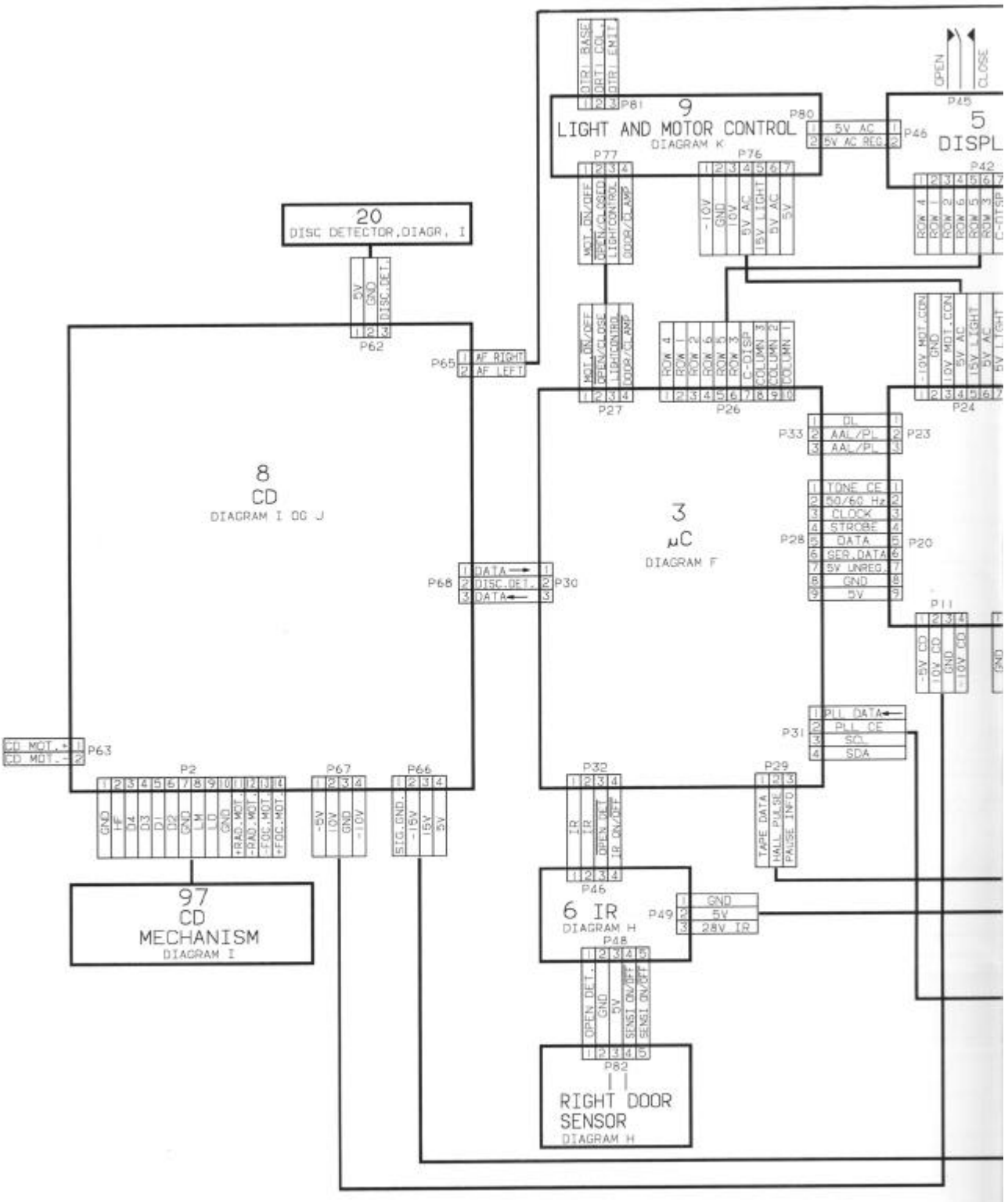
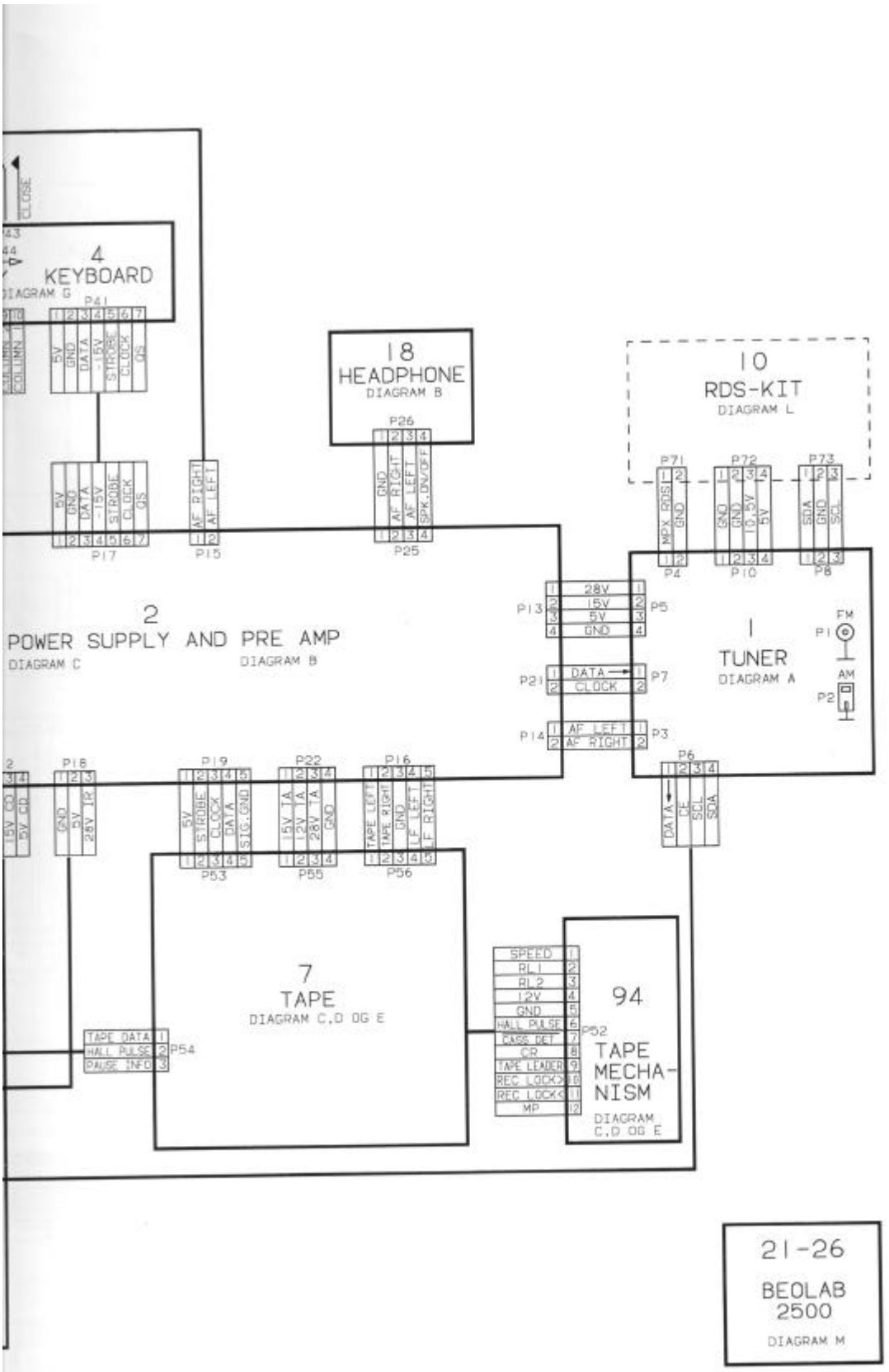
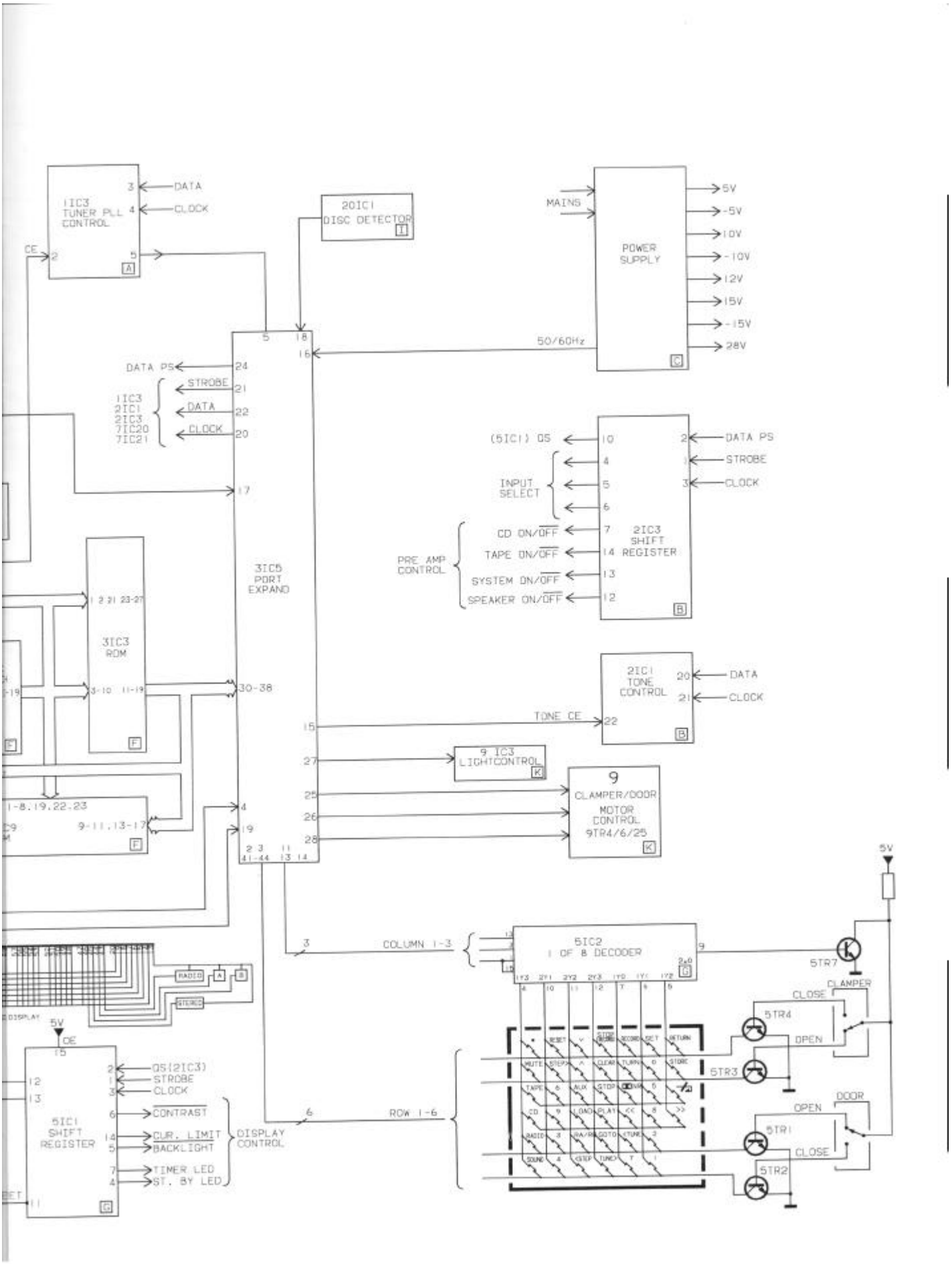

20
DISC DETECTOR,DIAGR. I
9
LIGHT AND MOTOR CONTROL
DIAGRAM K
8
CD
DIAGRAM I OG J
3
µC
DIAGRAM F
97
CD
MECHANISM
DIAGRAM I
6 IR
DIAGRAM H
RIGHT DOOR
SENSOR
DIAGRAM H
OPEN
CLOSE
P62
P65
P68
P30
P63
P2
P67
P66
P27
P26
P24
P33
P23
P28
P20
P11
P31
P32
P29
P46
P49
P48
P82
P81
P80
P77
P76
P45
P42

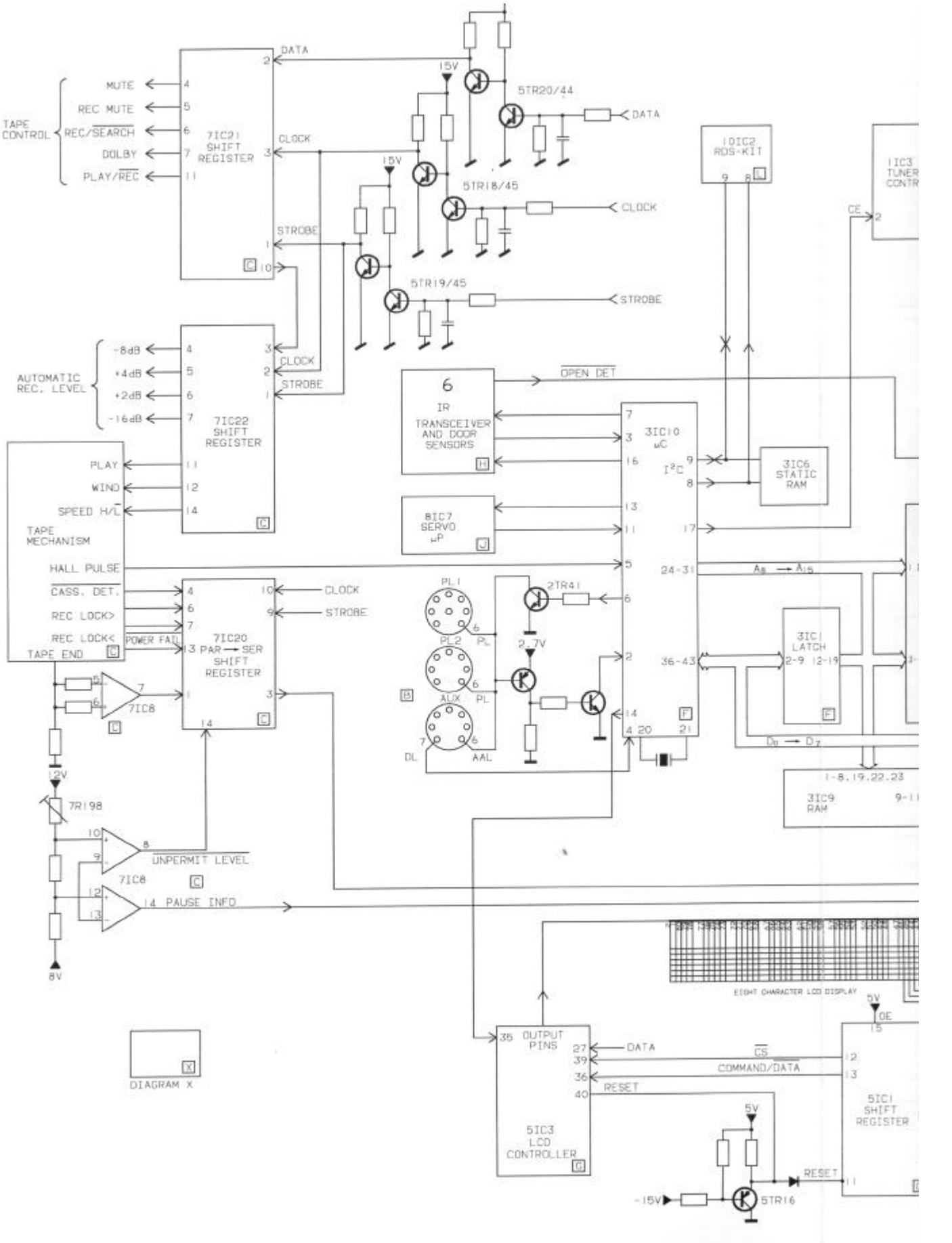


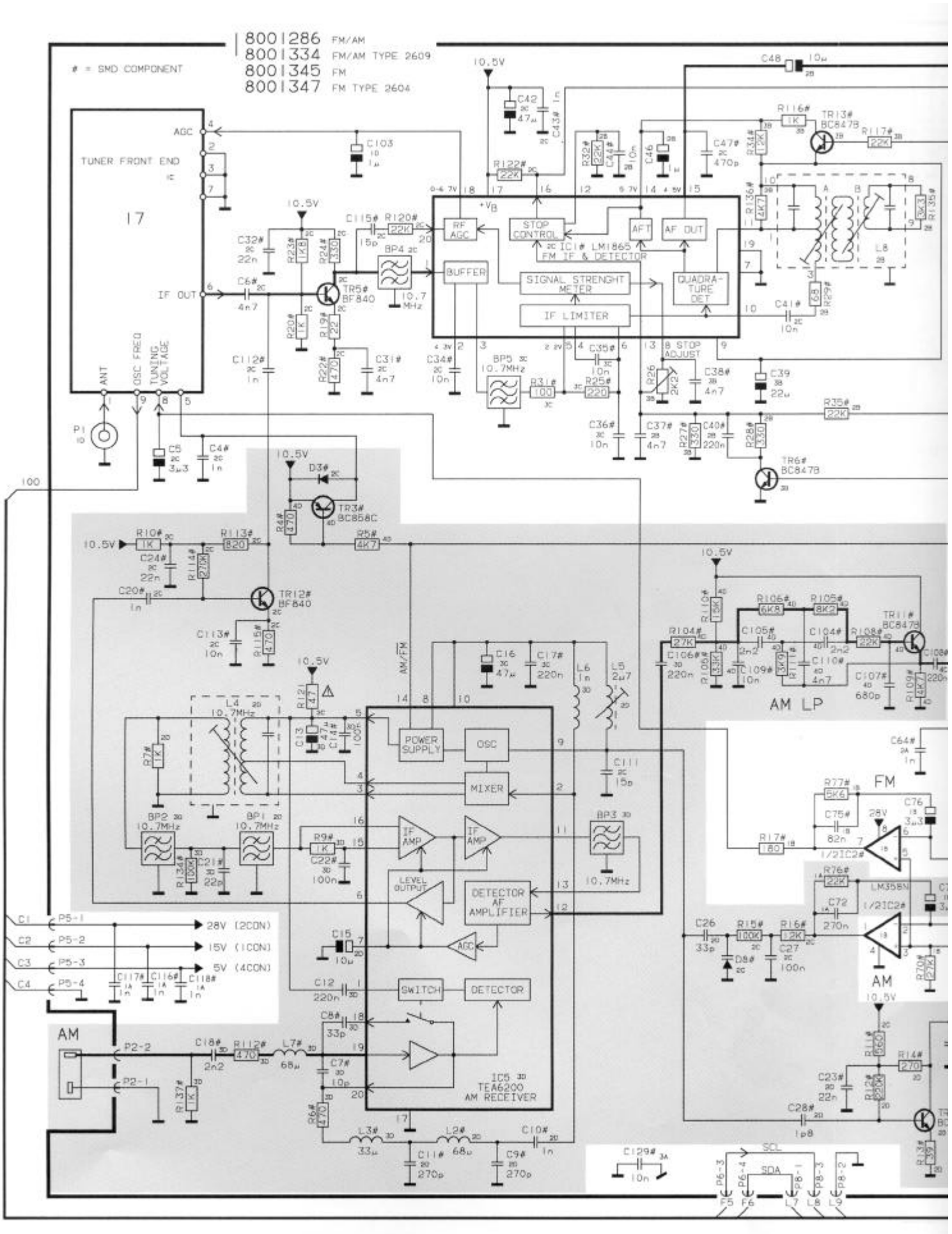
21-26

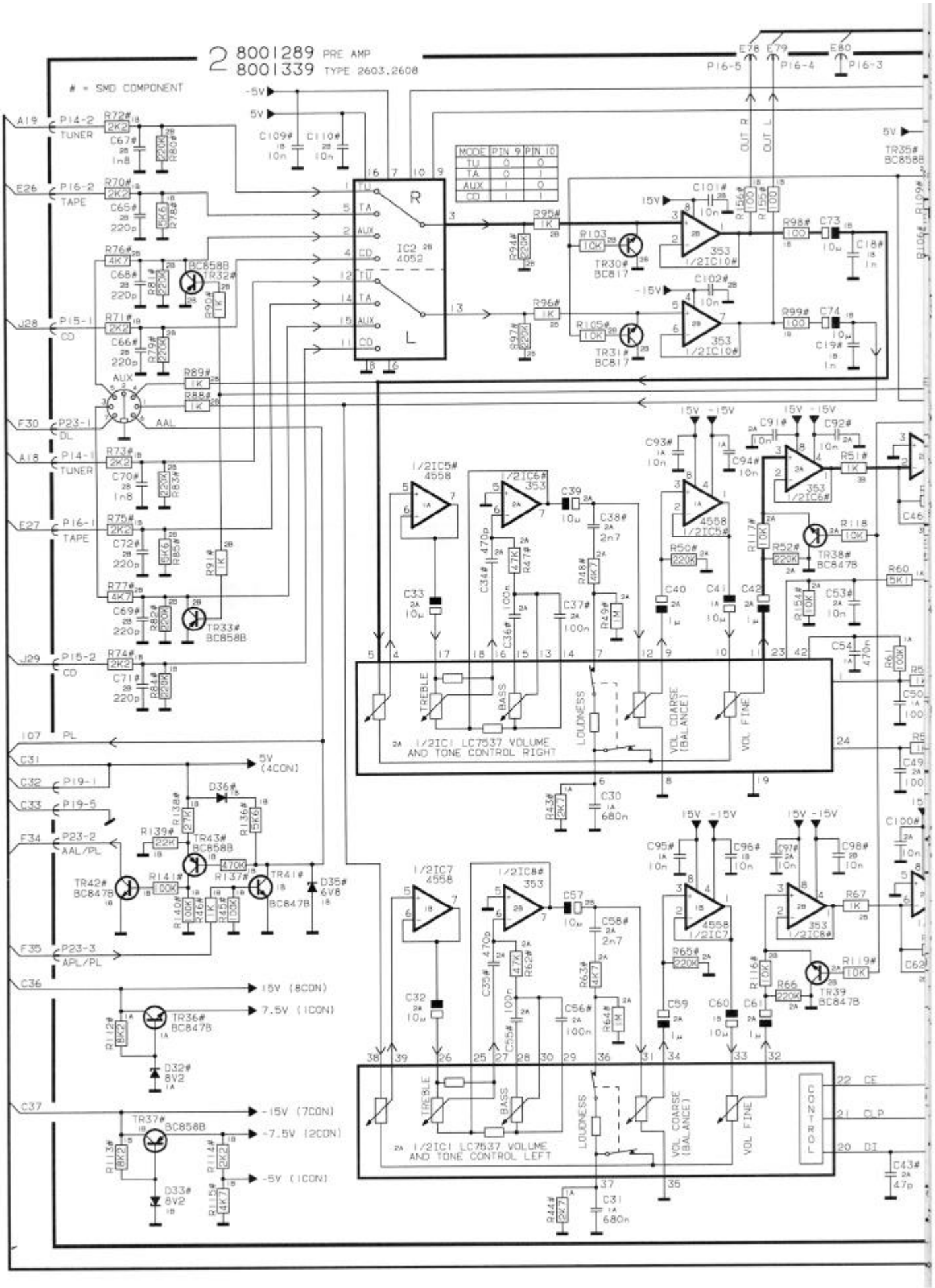
BEOLAB
2500

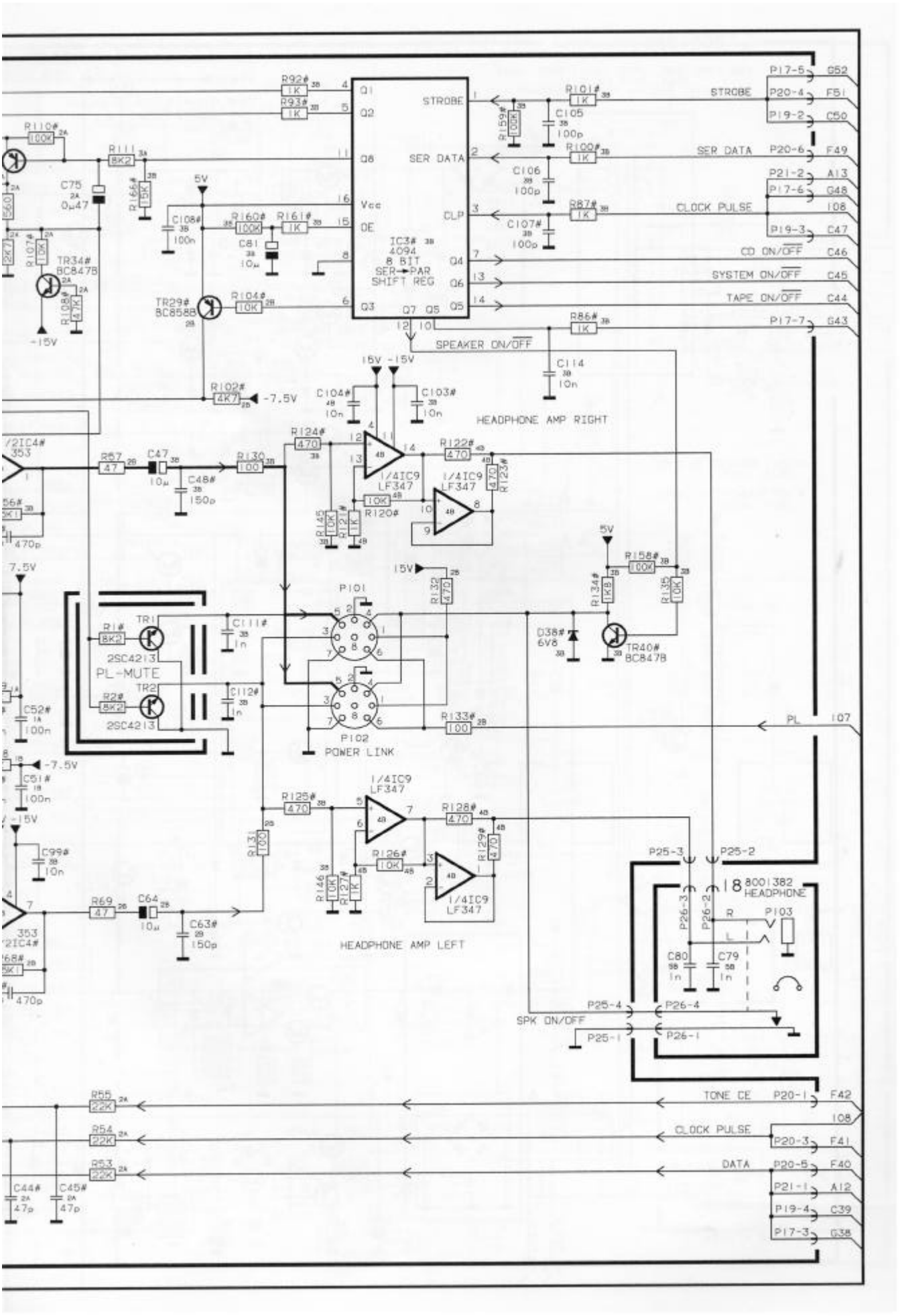
DIAGRAM M

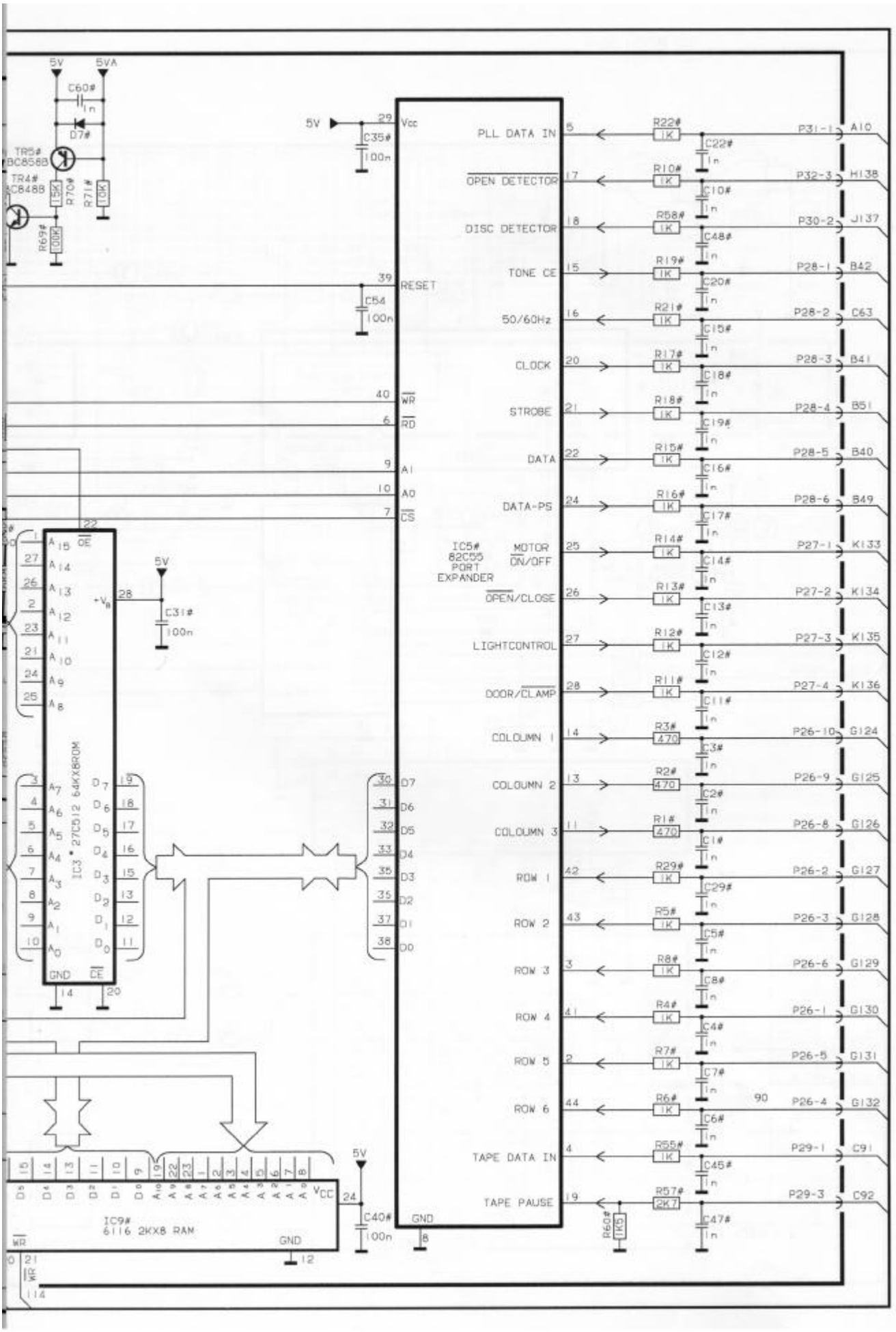

1IC3
TUNER PLL
CONTROL
DATA
CLOCK
CE
20IC1
DISC DETECTOR
MAINS
POWER
SUPPLY
5V
-5V
10V
-10V
12V
15V
-15V
28V
50/60Hz
DATA PS
STROBE
DATA
CLOCK
1IC3
2IC1
2IC3
7IC20
7IC21
3IC5
PORT
EXPAND
(5IC1) OS
INPUT
SELECT
CD ON/OFF
TAPE ON/OFF
SYSTEM ON/OFF
SPEAKER ON/OFF
PRE AMP
CONTROL
2IC3
SHIFT
REGISTER
3IC3
ROM
2IC1
TONE
CONTROL
TONE CE
9 IC3
LIGHTCONTROL
9
CLAMPER/DOOR
MOTOR
CONTROL
9TR4/6/25
COLUMN 1-3
5IC2
1 OF 8 DECODER
5TR7
CLAMPER
CLOSE
5TR4
OPEN
5TR3
DOOR
OPEN
5TR1
CLOSE
5TR2
ROW 1-6
OS(2IC3)
STROBE
CLOCK
CONTRAST
CUR. LIMIT
BACKLIGHT
TIMER LED
ST. BY LED
DISPLAY
CONTROL
5IC1
SHIFT
REGISTER
RADIO
STEREO

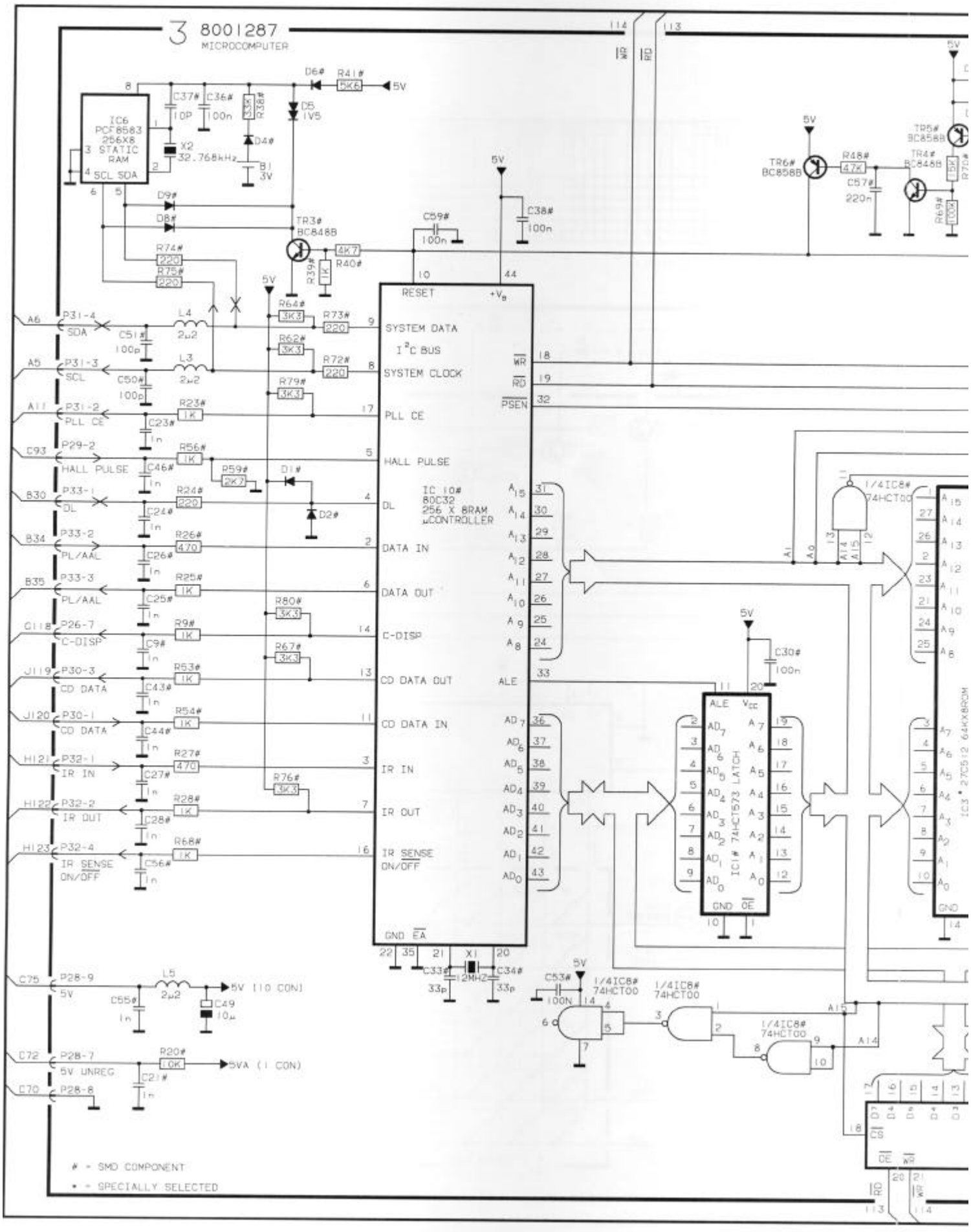

TAPE CONTROL
MUTE
REC MUTE
REC/SEARCH
DOLBY
PLAY/REC
7IC21 SHIFT REGISTER
DATA
CLOCK
STROBE
15V
5TR20/44
5TR18/45
5TR19/45
10IC2 ROS-KIT
11IC3 TUNER CONTR
CE
AUTOMATIC REC. LEVEL
-8dB
+4dB
+2dB
-16dB
7IC22 SHIFT REGISTER
OPEN DET
6 IR TRANSCEIVER AND DOOR SENSORS
3IC10 µC
I²C
3IC6 STATIC RAM
8IC7 SERVO µP
PLAY
WIND
SPEED H/L
TAPE MECHANISM
HALL PULSE
CASS. DET.
REC LOCK>
REC LOCK<
TAPE END
POWER FAIL
7IC20 PAR → SER SHIFT REGISTER
PL1
PL2
AUX
DL
AAL
2TR41
2.7V
24-31
36-43
3IC1 LATCH
1-8,19,22,23
3IC9 RAM
7IC8
12V
7R198
UNPERMIT LEVEL
14 PAUSE INFO
8V
EIGHT CHARACTER LCD DISPLAY
5V
35 OUTPUT PINS
5IC3 LCD CONTROLLER
COMMAND/DATA
RESET
5IC1 SHIFT REGISTER
5TR16
-15V
DIAGRAM X


8001286 FM/AM
8001334 FM/AM TYPE 2609
8001345 FM
8001347 FM TYPE 2604
= SMD COMPONENT
TUNER FRONT END
IC
17
AGC
IF OUT
ANT
OSC FREQ
TUNING VOLTAGE
10.5V
RF AGC
STOP CONTROL
AFT
AF OUT
BUFFER
SIGNAL STRENGHT METER
QUADRATURE DET
IF LIMITER
IC1# LM1865 FM IF & DETECTOR
BP4 10.7 MHz
BP5 10.7MHz
TR5# BF840
TR6# BC847B
TR3# BC858C
TR12# BF840
TR13# BC847B
L8
P1
AM LP
FM
AM
POWER SUPPLY
OSC
MIXER
IF AMP
LEVEL OUTPUT
DETECTOR AF AMPLIFIER
AGC
SWITCH
DETECTOR
IC5 TEA6200 AM RECEIVER
BP1 10.7MHz
BP2 10.7MHz
BP3 10.7MHz
L4 10.7MHz
28V (2CON)
15V (1CON)
5V (4CON)
SCL
SDA


2 8001289 PRE AMP
8001339 TYPE 2603,2608
= SMD COMPONENT
TREBLE
BASS
LOUDNESS
VOL COARSE (BALANCE)
VOL FINE
2A 1/2IC1 LC7537 VOLUME AND TONE CONTROL RIGHT
2A 1/2IC1 LC7537 VOLUME AND TONE CONTROL LEFT
CONTROL
TUNER
TAPE
CD
AUX
AAL
DL
APL/PL
PRE AMP


IC3# 4094 8 BIT SER→PAR SHIFT REG
STROBE
SER DATA
CLOCK PULSE
CD ON/OFF
SYSTEM ON/OFF
TAPE ON/OFF
SPEAKER ON/OFF
HEADPHONE AMP RIGHT
HEADPHONE AMP LEFT
PL-MUTE
POWER LINK
SPK ON/OFF
TONE CE
DATA
18 8001382 HEADPHONE


5V
5VA
C60#
1n
D7#
TR5#
BC858B
TR4#
BC848B
R70#
15K
R71#
10K
R69#
100K
5V
29
Vcc
C35#
100n
39
RESET
C54
100n
40
WR
6
RD
9
A1
10
A0
7
CS
IC5#
82C55
PORT
EXPANDER
PLL DATA IN
OPEN DETECTOR
DISC DETECTOR
TONE CE
50/60Hz
CLOCK
STROBE
DATA
DATA-PS
MOTOR ON/OFF
OPEN/CLOSE
LIGHTCONTROL
DOOR/CLAMP
COLOUMN 1
COLOUMN 2
COLOUMN 3
ROW 1
ROW 2
ROW 3
ROW 4
ROW 5
ROW 6
TAPE DATA IN
TAPE PAUSE
GND
8
R22#
1K
C22#
1n
P31-1
A10
R10#
1K
C10#
1n
P32-3
H138
R58#
1K
C48#
1n
P30-2
J137
R19#
1K
C20#
1n
P28-1
B42
R21#
1K
C15#
1n
P28-2
C63
R17#
1K
C18#
1n
P28-3
B41
R18#
1K
C19#
1n
P28-4
B51
R15#
1K
C16#
1n
P28-5
B40
R16#
1K
C17#
1n
P28-6
B49
R14#
1K
C14#
1n
P27-1
K133
R13#
1K
C13#
1n
P27-2
K134
R12#
1K
C12#
1n
P27-3
K135
R11#
1K
C11#
1n
P27-4
K136
R3#
470
C3#
1n
P26-10
G124
R2#
470
C2#
1n
P26-9
G125
R1#
470
C1#
1n
P26-8
G126
R29#
1K
C29#
1n
P26-2
G127
R5#
1K
C5#
1n
P26-3
G128
R8#
1K
C8#
1n
P26-6
G129
R4#
1K
C4#
1n
P26-1
G130
R7#
1K
C7#
1n
P26-5
G131
R6#
1K
C6#
1n
P26-4
G132
R55#
1K
C45#
1n
P29-1
C91
R57#
2K7
C47#
1n
P29-3
C92
R60#
1K5
90
IC3 * 27C512 64KX8ROM
22
OE
28
+VP
C31#
100n
5V
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
D7
D6
D5
D4
D3
D2
D1
D0
GND
CE
14
20
IC9#
6116 2KX8 RAM
C40#
100n
5V
24
GND
12
WR
21
WR
114


3 8001287
MICROCOMPUTER
IC6 PCF8583 256X8 STATIC RAM
SCL SDA
X2 32.768kHz
B1 3V
D6# R41# 5K6 5V
D5 1V5
D4#
C37# 10P
C36# 100n
R38# 33K
D9#
D8#
TR3# BC848B
R74# 220
R75# 220
C59# 100n
C38# 100n
R39# 1K
R40# 4K7
TR5# BC858B
TR6# BC858B
R48# 47K
C57# 220n
TR4# BC848B
15K
R69# 100K
RESET
+VB
SYSTEM DATA
I²C BUS
SYSTEM CLOCK
PLL CE
HALL PULSE
DL
DATA IN
DATA OUT
C-DISP
CD DATA OUT
CD DATA IN
IR IN
IR OUT
IR SENSE ON/OFF
WR
RD
PSEN
ALE
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
A15
A14
A13
A12
A11
A10
A9
A8
GND EA
IC 10# 80C32 256 X BRAM μCONTROLLER
XI 12MHZ
C33# 33p
C34# 33p
C30# 100n
IC1# 74HCT573 LATCH
1/4IC8# 74HCT00
C53# 100N
L4 2μ2
L3 2μ2
L5 2μ2
C51# 100p
C50# 100p
C55# 1n
C49 10μ
R64# 3K3
R62# 3K3
R79# 3K3
R80# 3K3
R67# 3K3
R76# 3K3
R73# 220
R72# 220
R23# 1K
C23# 1n
R56# 1K
C46# 1n
P59# 2K7
D1#
D2#
R24# 220
C24# 1n
R26# 470
C26# 1n
R25# 1K
C25# 1n
R9# 1K
C9# 1n
R53# 1K
C43# 1n
R54# 1K
C44# 1n
R27# 470
C27# 1n
R28# 1K
C28# 1n
R68# 1K
C56# 1n
R20# 1.0K
C21# 1n
A6 P31-4 SDA
A5 P31-3 SCL
A11 P31-2 PLL CE
C93 P29-2 HALL PULSE
B30 P33-1 DL
B34 P33-2 PL/AAL
B35 P33-3 PL/AAL
C118 P26-7 C-DISP
J119 P30-3 CD DATA
J120 P30-1 CD DATA
H121 P32-1 IR IN
H122 P32-2 IR OUT
H123 P32-4 IR SENSE ON/OFF
C75 P28-9 5V
C72 P28-7 5V UNREG
C70 P28-8
5V (10 CON)
5VA (1 CON)
= SMD COMPONENT
• = SPECIALLY SELECTED